blocks, each block generally comprising a two dimensional array of pixels;

(c) an array of controllable modulators to independently modulate each of the raster elements for each of said P blocks; and

(d) a surface on which said P image blocks of a total number of M pixels are formed and displayed, where the number M exceeds the number N and where said surface preceding components of (a), (b) and (c) are placed in the mentioned order of the light path of the complementary screen.

- 57. (Amended) A method for forming an image on an image display surface by forming a plurality of constituent blocks of said image, so that the image is presented as comprised of a plurality of blocks, comprising the steps of:
- (a) providing at least one complementary screen having a two dimensional array of N pixels from which raster elements of one or more pixels are generated with one or more of said raster elements to comprise a block of an image;
- (b) using a raster multiplying system comprising a plurality of light dividing elements for dividing an incoming light beam of each raster element into parts, with said light dividing elements to separate a raster element corresponding light beam into a plurality of beam components to form copies of each said generated raster element in P blocks, each block generally comprising a two dimensional array of pixels;
- (c) transmitting the formed beam components to an array of controllable modulators to independently modulate the beam component corresponding to each raster

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Serial No. 08/995,715
Response to Office Action dated December 9, 2002
M:\0971\0D319\MOB0149.WPD *0971/0D319*

Docket No. 0971/0D319

element copy in accordance with control signals applied for each of said P blocks;

(d) repeating the procedure successively generating other raster elements from said complementary screen with said elements to simultaneously form a modulated raster in said blocks; and

(e) displaying the pimage blocks having a total number of M pixels on an image display surface, where M is greater than N.

- 69. (Amended) A 3D\holographic image display system comprising:
- (a) at least one complementary screen of one of light emitting or light source modulating devices in a two dimensional array of N (a real number) pixels, from which raster elements comprising one or more pixels are generated;
- (b) a raster multiplying system comprising a plurality of passive and at least partly light transmitting elements to form copies of said generated raster elements of a complementary screen, with said raster element copies forming a raster in P blocks with each block generally comprising a two dimensional array of pixels;
- (c) an array of controllable modulators to independently modulate the raster of each of said P blocks;
- (d) a surface on which a hologram blocks of total number of M pixels are formed, where the number M exceeds number N and where said surface preceding components of (a), (b) and (c) are placed in the mentioned order of the light path of the complementary screen; and

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Serial No. 08/995,715
Response to Office Action dated December 9, 2002
M:\0971\0D319\MOB0149.WPD *0971/0D319*

Docket No. 0971/0D319

surface.

- (e) a holograph generator for producing a 3D holographic image from said
- 71. (Amended) A system as in claim 48 used for image recording further comprising:
- (e) a photosensitive plane on which an outer image to be recorded is produced, said outer image comprising a plurality of said blocks, each block being of a two dimensional array of pixels, and all said blocks comprising M pixels, where the number M exceeds the number N, and where said system components of (a), (b) and (c) are placed in the mentioned order of the light path of the complementary screen; and
- (f) means to scan said outer image on said photosensitive plane into electric signals for recording.
- 75. (Amended) A method as in claim 57 further comprising the step of generating a 3D image from said image display surface.
- 76. (Amended) A method as in claim 57 further comprising the step of subjecting raster elements of said complementary screen to additional optical compression for increasing dot per inch resolution.

78. (Amended) A system as in claim 48 further comprising partly transparent

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Serial No. 08/995,715
Response to Office Action dated December 9, 2002

M:\0971\0D319\MOB0149.WPD *0971/0D319*

Docket No. 0971/0D319

Page 5